

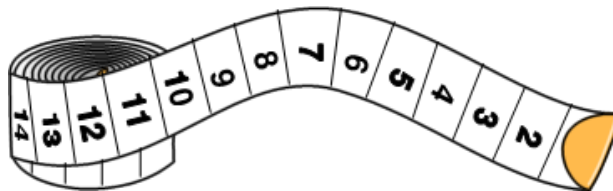
# Solving Simple Equations (1.1A)

Unit Title: Getting Into Shape

Unit Question: Do I Measure Up?

Learner Profile: Balanced

Area of Interaction: Human Ingenuity



# I Can Statement:

I can solve one step equations using addition, subtraction, multiplication, and division.



## Words to Live By:

Acute

Right

Obtuse

What does it mean to measure an angle?

Think about, write it, and  
then share it!

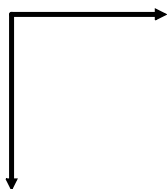
acute  
right  
obtuse

Acute Angles: 

Angles greater than 0 degrees but less than 90 degrees.

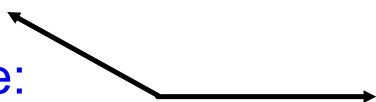
Right Angle:

A 90 degree angle.



Obtuse Angle:

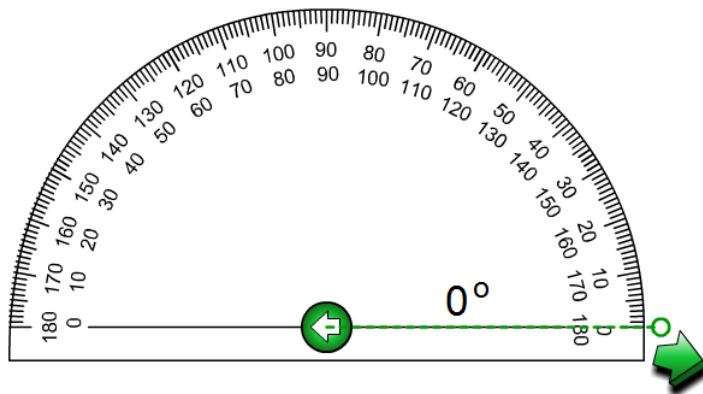
An angle greater than 90 degrees but less than 180 degrees.



What types of angles are the following?



How to use a protractor:






Turn to page \_\_\_\_\_ in your journal.

With a partner complete Activity 1. Make certain to accurately measure each angle in the triangle and completely fill in the table.

Once you have completed Activity 1 have me check it off and then begin Activity 2. Make certain for part b to clearly draw 4 triangles and accurately measure each angle.

Finally, complete Activity 3.

 [http://bigideaslearning.com/protected/content/ipe\\_cc/grade%208/01/g8\\_01\\_01.pdf](http://bigideaslearning.com/protected/content/ipe_cc/grade%208/01/g8_01_01.pdf)

Activity 1

Triangle	Angle A (degrees)	Angle B (degrees)	Angle C (degrees)	A + B + C
a.				
b.				
c.				
d.				

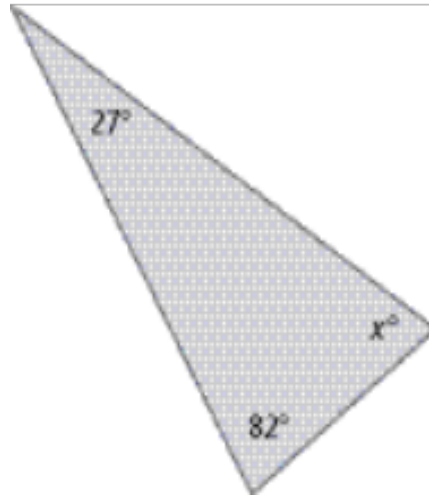
**ACTIVITY 1.2 : Writing a Rule**

**Work with a partner. Use inductive reasoning to write and test a rule.**

- a. Use the completed table in Activity 1 to write a rule about the sum of the angle measures of a triangle.
  
  
  
  
  
  
  
  
  
  
- b. **Test your rule** Draw four triangles that are different from those in Activity 1. Measure the angles of each triangle. Organize your results in a table. Find the sum of the angle measures of each triangle.

## Activity 1.3

Work with a partner. Use the rule you wrote in Activity 2 to write an equation for each triangle. Then, solve the equation to find the value of  $x$ . Use a protractor to check the reasonableness of your answer.



**What Is Your Answer?**

**4. IN YOUR OWN WORDS** How can you use inductive reasoning to discover rules in mathematics? How can you test a rule? How can you use a rule to solve problems in mathematics?

# Homework Assignment: Page 7 #4, 5, 6

Summarize:

What did you learn about triangles today?